HW#55: Area of Circles

Geometry

Due Date: Thursday, Nov. 13th, 2014

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems or use complete sentences will result in a LaSalle. *Round to hundredths!***

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| 1) A circle has a diameter of 18 ft. What is its area?  A. 25.78 ft2  B. 103.13 ft2  C. 254.47 ft2  D. 1017.88 ft2 | 2) If the radius is 3.82 ft, what will be the area of the circle?  A) 45.82 ft2  B) 11.46 ft2  C) 23.99 ft2  D) 11.99 ft2 | 3) If the area of a circle is ft2, what is the length of the radius? |
| 4) Find the area of the shaded region. | 5) Find the area of the circle below: | 6) Find the area of the circle below: |
| 7) How many millimeters long is the diameter of a circle whose area is 49 mm2 ? | 8) Find the diameter of a circle if the area is 387.1 m2. | 9) Find the radius of a circle if  the area is 482.3 m2. |
| 10) A farmer ties his goat to a stake in the ground outside of the barn to keep it from chewing on the fencing. When attached to the stake, the goat can eat grass that is 12 feet or less from the stake in any direction. If the farmer leaves the goat out all day and it eats every piece of grass it can reach, what is the area of lawn the goat destroyed? (draw a picture!) | | |

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| 11) What is the perimeter and area of square whose side length is 9 inches? | 12) In the square below, 1 ft by 1 ft corners have been cut out. Find the perimeter and area of the remaining figure.  5  1  Perimeter: \_\_\_\_\_\_  Area: \_\_\_\_\_\_\_ | 13) Find the height in the triangle below: |
| 14) What is the slope of the line that passes through the point (0,0) and (2,4) | 15) Write 3 lines that are parallel to. | 16) Write 3 lines that are perpendicular to . |
| 17) Determine which of the following lines are parallel or perpendicular by rewriting in slope-int form and then graphing  Line A: 3*y* – 2*x* = 12  Line B: *y* = –6*x* + 4  Line C: 3*y* = 2*x* – 18  Line D: 2*y* = –3*x* + 18  Parallel:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Perpendicular:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| 18) | | |